

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 December 2000 (21.12.2000)

PCT

(10) International Publication Number
WO 00/77296 A1

(51) International Patent Classification⁷: D21C 9/153, 7/06

(21) International Application Number: PCT/SE00/01052

(22) International Filing Date: 24 May 2000 (24.05.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
9902178-4 10 June 1999 (10.06.1999) SE

(71) Applicant (for all designated States except US): VALMET
FIBERTECH AB [SE/SE]; S-851 94 Sundsvall (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BOKSTRÖM,
Monica [SE/SE]; Bjärne 3251, S-860 25 Kovland (SE).
ÅSTRÖM, Per [SE/SE]; Bjärne 3251, S-860 25 Kovland
(SE).

(74) Agents: HAGSTRÖM, Leif et al.; Bergenstråhle & Lind-
vall AB, P.O. Box 17704, S-118 93 Stockholm (SE).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE,
DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO,
NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

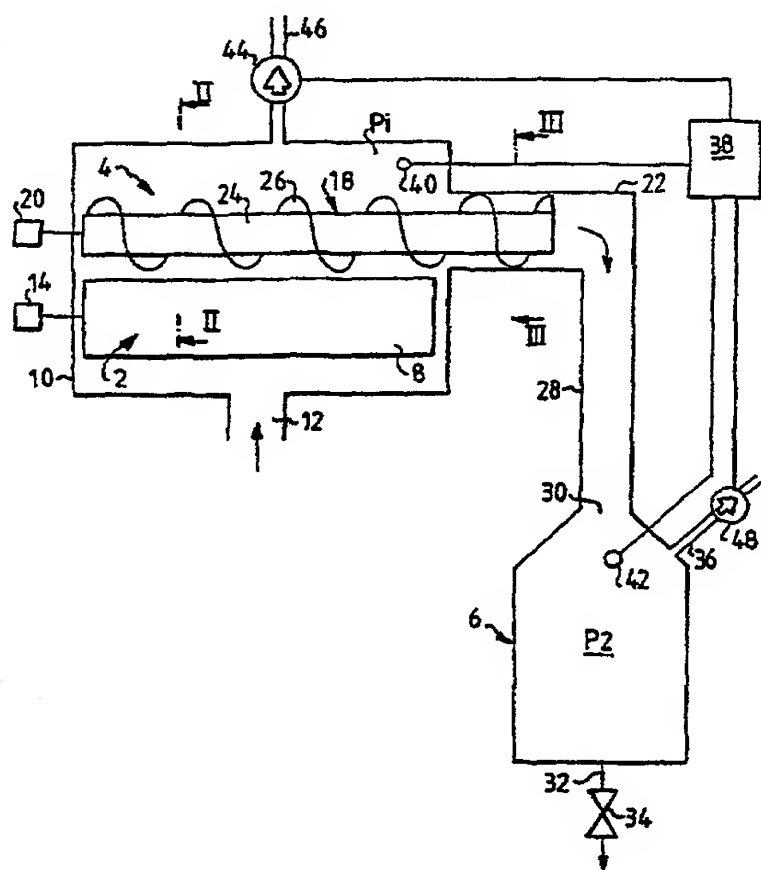
(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND SYSTEM FOR CONVEYING SHREDDED PULP TO AN OZONE REACTOR



(57) Abstract: A system for treatment of pulp comprises a dewatering device (2) for dewatering the pulp to a fibre concentration of at least 20 %, a reaction vessel (6) for bleaching the dewatered pulp through reaction with ozone gas and a pulp shredding device (4) for shredding the dewatered pulp before the latter is supplied to the reaction vessel. The pulp shredding device has a closed pulp shredding vessel (16), an outlet pipe (22) and a transport means (18) for continuous transport of the shredded pulp without compression out of the pulp shredding vessel via the outlet pipe, so that the latter kept filled with passing pulp. A conduit (28) gas sealed from the surroundings connects the outlet pipe (22) gas-tightly to the reaction vessel (6). A pressure regulation device (38, 40, 42, 44, 48) maintains a gas pressure (P1) in the pulp shredding vessel which is higher than the gas pressure (P2) in the reaction vessel.